

(continued from outside back cover)

Solvothermal synthesis of novel hierarchical $\text{Bi}_4\text{O}_5\text{I}_2$ nanoflakes with highly visible light photocatalytic performance for the degradation of 4- <i>tert</i> -butylphenol X. Xiao, C. Xing, G. He, X. Zuo, J. Nan and L. Wang (PR China)	154
Elimination of BPA endocrine disruptor by magnetic $\text{BiOBr}@ \text{SiO}_2 @ \text{Fe}_3\text{O}_4$ photocatalyst L. Zhang, W. Wang, S. Sun, Y. Sun, E. Gao and Z. Zhang (PR China)	164
Core-shell-structured carbon nanofiber-titanate nanotubes with enhanced photocatalytic activity S. Kim, M. Kim, Y.K. Kim, S.-H. Hwang and S.K. Lim (Republic of Korea)	170
Carbon dioxide reforming of methane over promoted $\text{Ni}_x\text{Mg}_{1-x}\text{O}$ (1 1 1) platelet catalyst derived from solvothermal synthesis M. Yu, K. Zhu, Z. Liu, H. Xiao, W. Deng and X. Zhou (PR China)	177
Iron terephthalate metal-organic framework: Revealing the effective activation of hydrogen peroxide for the degradation of organic dye under visible light irradiation L. Ai, C. Zhang, L. Li and J. Jiang (PR China)	191
Deoxygenation of decanoic acid and its main intermediates over unpromoted and promoted sulfided catalysts S. Brillouet, E. Baltag, S. Brunet and F. Richard (France)	201
Amide-functionalized carbon supports for cobalt oxide toward oxygen reduction reaction in Zn-air battery J. Liu, L. Jiang, Q. Tang, E. Wang, L. Qi, S. Wang and G. Sun (China)	212
Effect of the divalent metal and the activation temperature of NiMoW and CoMoW on the dibenzothiophene hydrodesulfurization reaction S.L. Amaya, G. Alonso-Núñez, T.A. Zepeda, S. Fuentes and A. Echavarría (Colombia, Mexico)	221
Perovskite $\text{La}_x\text{M}_{1-x}\text{Ni}_{0.8}\text{Fe}_{0.2}\text{O}_3$ catalyst for steam reforming of toluene: Crucial role of alkaline earth metal at low steam condition U. Oemar, M.L. Ang, W.F. Hee, K. Hidajat and S. Kawi (Singapore)	231
Self-assembly of bioinspired catecholic cyclodextrin TiO_2 heterosupramolecule with high adsorption capacity and efficient visible-light photoactivity Z. Yang, X. Zhang and J. Cui (PR China, Canada)	243
Evaluating the sensitizing effect on the photocatalytic decoloration of dyes using anatase- TiO_2 Y.-C. Hsiao, T.-F. Wu, Y.-S. Wang, C.-C. Hu and C. Huang (Taiwan)	250
Sunlight photocatalytic activity enhancement and mechanism of novel europium-doped ZnO hierarchical micro/nanospheres for degradation of phenol J.-C. Sin, S.-M. Lam, I. Satoshi, K.-T. Lee and A.R. Mohamed (Malaysia, Japan)	258
Hydrogen production by steam reforming of simulated liquefied natural gas (LNG) over nickel catalyst supported on mesoporous phosphorus-modified alumina xerogel Y. Bang, S.J. Han, J. Yoo, J.H. Choi, J.K. Lee, J.H. Song, J. Lee and I.K. Song (South Korea)	269
Facile synthesis of porous microspheres composed of TiO_2 nanorods with high photocatalytic activity for hydrogen production K. Yan, G. Wu, C. Jarvis, J. Wen and A. Chen (Canada)	281
Nitrogen and organic load removal from sanitary landfill leachates by anodic oxidation at $\text{Ti}/\text{Pt}/\text{PbO}_2$, $\text{Ti}/\text{Pt}/\text{SnO}_2\text{-Sb}_2\text{O}_4$ and Si/BDD A. Fernandes, D. Santos, M.J. Pacheco, L. Ciriaco and A. Lopes (Portugal)	288
A comparative study on catalytic properties of solid acid catalysts for glycerol acetylation at low temperatures I. Kim, J. Kim and D. Lee (Republic of Korea)	295
WO_3 nanoneedles/ $\alpha\text{-Fe}_2\text{O}_3$ /cobalt phosphate composite photoanode for efficient photoelectrochemical water splitting T. Jin, P. Diao, Q. Wu, D. Xu, D. Hu, Y. Xie and M. Zhang (PR China)	304
LNT-SCR dual-layer catalysts optimized for lean NO_x reduction by H_2 and CO Y. Zheng, Y. Liu, M.P. Harold and D. Luss (USA)	311
Influence of alkaline and alkaline-earth cocations on the performance of $\text{Ni}/\beta\text{-SiC}$ catalysts in the methane tri-reforming reaction J.M. García-Vargas, J.L. Valverde, J. Díez, P. Sánchez and F. Dorado (Spain)	322
Aqueous-phase hydrodechlorination of chlorophenols with pillared clays-supported Pt, Pd and Rh catalysts C.B. Molina, A.H. Pizarro, J.A. Casas and J.J. Rodriguez (Spain)	330
Preparation of black TiO_2 by hydrogen plasma assisted chemical vapor deposition and its photocatalytic activity F. Teng, M. Li, C. Gao, G. Zhang, P. Zhang, Y. Wang, L. Chen and E. Xie (People's Republic of China)	339
Ti-incorporated SBA-15 mesoporous silica as an efficient and robust Lewis solid acid catalyst for the production of high-quality biodiesel fuels S.-Y. Chen, T. Mochizuki, Y. Abe, M. Toba and Y. Yoshimura (Japan)	344
Carbon nanofibres coated with Ni decorated MoS_2 nanosheets as catalyst for vacuum residue hydroprocessing J.L. Pinilla, H. Purón, D. Torres, S. de Llobet, R. Moliner, I. Suelves and M. Millan (UK, Spain)	357
Salt-templated synthesis of Ce/Al catalysts supported on mesoporous silica for acetone oxidation L.-Y. Lin and H. Bai (Taiwan)	366
Adsorption-desorption behavior and mechanism of dimethyl disulfide in liquid hydrocarbon streams on modified Y zeolites D. Yi, H. Huang, X. Meng and L. Shi (People's Republic of China)	377
Photocatalytic reduction of platinum(II and IV) from their chloro complexes in a titanium dioxide suspension in the absence of an organic sacrificial reducing agent F. Mahlamvana and R.J. Kriek (South Africa)	387
Competitive role of structural properties of titania-silica mixed oxides and a mechanistic study of the photocatalytic degradation of phenol S. Rasalingam, H.S. Kibombo, C.-M. Wu, R. Peng, J. Baltrusaitis and R.T. Koodali (USA, The Netherlands)	394
Effect of CO_2 , H_2O and SO_2 in the ceria-catalyzed combustion of soot under simulated diesel exhaust conditions A.M. Hernández-Giménez, D. Lozano-Castelló and A. Bueno-López (Spain)	406

Enhanced oxygen storage capacity of $\text{Ce}_{0.65}\text{Hf}_{0.25}\text{M}_{0.1}\text{O}_{2-\delta}$ (M = rare earth elements): Applications to methane steam reforming with high coking resistance	
D. Harshini, D.H. Lee, J. Jeong, Y. Kim, S.W. Nam, H.C. Ham, J.H. Han, T.-H. Lim and C.W. Yoon (Republic of Korea)	415
Functionalization of carbon xerogels for the preparation of palladium supported catalysts applied in sugar transformations	
N. Mager, N. Meyer, A.F. Léonard, N. Job, M. Devillers and S. Hermans (Belgium)	424
Identification of the coke deposited on an HZSM-5 zeolite catalyst during the sequenced pyrolysis-cracking of HDPE	
M. Ibáñez, M. Artetxe, G. Lopez, G. Elordi, J. Bilbao, M. Olazar and P. Castaño (Spain)	436
Combined IR spectroscopy and kinetic modeling of NO_x storage and NO oxidation on Fe-BEA SCR catalysts	
S.A. Skarlis, D. Berthout, A. Nicolle, C. Dujardin and P. Granger (France)	446
Iridium(0) nanoparticles dispersed in zeolite framework: A highly active and long-lived green nanocatalyst for the hydrogenation of neat aromatics at room temperature	
Y. Tonbul, M. Zahmakiran and S. Özkaz (Turkey)	466
Abatement of Acid Orange 7 in macro and micro reactors. Effect of the electrocatalytic route	
O. Scialdone, A. Galia and S. Sabatino (Italy)	473
Solar photo-Fenton for water disinfection: An investigation of the competitive role of model organic matter for oxidative species	
E. Ortega-Gómez, M.M. Ballesteros Martín, B. Esteban García, J.A. Sánchez Pérez and P. Fernández Ibáñez (Spain)	484
LaMnO_3 perovskite oxides prepared by different methods for catalytic oxidation of toluene	
C. Zhang, Y. Guo, Y. Guo, G. Lu, A. Boreave, L. Retailleau, A. Baylet and A. Giroir-Fendler (China, France)	490
New bifunctional catalytic systems for sorbitol transformation into biofuels	
L. Vilcocq, R. Koerin, A. Cabiach, C. Especel, S. Lacombe and D. Duprez (France)	499
Effects of the pretreatment of CuNi/SiO_2 on ethanol steam reforming: Influence of bimetal morphology	
L.-C. Chen and S.D. Lin (ROC)	509
Selective catalytic reduction of NO with NH_3 over HZSM-5-supported Fe-Cu nanocomposite catalysts: The Fe-Cu bimetallic effect	
T. Zhang, J. Liu, D. Wang, Z. Zhao, Y. Wei, K. Cheng, G. Jiang and A. Duan (China)	520
Effects of preparation method on the microstructure and photocatalytic performance of $\text{ZnSn}(\text{OH})_6$	
X. Fu, D. Huang, Y. Qin, L. Li, X. Jiang and S. Chen (China)	532
Influence of colloidal graphene oxide on photocatalytic activity of nanocrystalline TiO_2 in gas-phase ethanol and benzene oxidation	
N.S. Andryushina and O.L. Stroyuk (Ukraine)	543
Ordered macroporous $\text{Bi}_2\text{O}_3/\text{TiO}_2$ film coated on a rotating disk with enhanced photocatalytic activity under visible irradiation	
Y. Huo, X. Chen, J. Zhang, G. Pan, J. Jia and H. Li (PR China)	550
Microwave heated synthesis of carbon supported Pd, Ni and Pd-Ni nanoparticles for methanol oxidation in KOH solution	
R.S. Amin, R.M.A. Hameed and K.M. El-Khatib (Egypt)	557
Bacterial target-specific photocatalyst for the enhancement of antibacterial property to targets	
M.Y. Song, H.D. Jung, J. Jurng and B.C. Kim (Republic of Korea)	568
Nitric oxide oxidation catalyzed by microporous activated carbon fiber cloth: An updated reaction mechanism	
Z. Zhang, J.D. Atkinson, B. Jiang, M.J. Rood and Z. Yan (China, USA)	573
The role of cerium in the improved SO_2 tolerance for NO reduction with NH_3 over Mn-Ce/ TiO_2 catalyst at low temperature	
R. Jin, Y. Liu, Y. Wang, W. Cen, Z. Wu, H. Wang and X. Weng (PR China)	582
$\text{TiO}_2/\text{WO}_3/\text{Au}$ nanoarchitectures' photocatalytic activity "from degradation intermediates to catalysts' structural peculiarities" Part II: Aerogel based composites - fine details by spectroscopic means	
L. Baia, A. Vulpoi, T. Radu, É. Karácsonyi, A. Dombi, K. Hernádi, V. Danciu, S. Simon, K. Norén, S.E. Canton, G. Kovács and Zs. Pap (Romania, Hungary, Sweden)	589
Comments on "Glycerol conversion to acrylonitrile by consecutive dehydration over WO_3/TiO_2 and ammoxidation over Sb-(Fe,V)-O", published by Liebig, C., Paul, S., Katryniok, B., Guillon, C., Couturier, J.-L., Dubois, J.-L., et al. in Applied Catalysis B: Environmental, 132-133 (2013) 170-182	
M.A. Bañares and M.O. Guerrero-Pérez (Spain)	601
Reply to the Letter to the Editor concerning the comments of M.A. Bañares and M.O. Guerrero-Pérez to the article "Glycerol conversion to acrylonitrile by consecutive dehydration over WO_3/TiO_2 and ammoxidation over Sb-(Fe,V)-O"	
C. Liebig, S. Paul, B. Katryniok, C. Guillon, J.-L. Couturier, J.-L. Dubois, F. Dumeignil and W.F. Hoelderich (France, Germany)	604
Corrigendum to "Selective hydrogenation of CO_2 and CO to useful light olefins over octahedral molecular sieve manganese oxide supported iron catalysts" [Appl. Catal. B: Environ. 132-133 (2013) 54-61]	
B. Hu, S. Frueh, H.F. Garces, L. Zhang, M. Aindow, C. Brooks, E. Kreidler and S.L. Suib (USA)	606
Corrigendum to "Kinetics of the NO/ NO_2 equilibrium reaction over an iron zeolite catalyst" [Appl. Catal. B: Environ. 134-135 (2013) 55-59]	
V. Bacher, C. Perbandt, M. Schwefer, R. Siefert and T. Turek (Germany)	607